Sheet

Part 1: search task: -

1- search about bubble sorting.

2- search about linear search.

3- search about little and big Indian in pointers.

Part 2: Arrays: -

Q1 - write a C program to find the sum of elements of array.

Q2- Write a C program to copy the elements of one array to another.

Q3- Write a C program to find the maximum and minimum elements of array.

Q4- Write a C program to sort 10 numbers entered by the user in descending order.

Part 3: Pointers: -

MCQ: Q1-

```
1.    #include <stdio.h>
2.    int main()
3.    {
4.        int i = 0x12345678;
5.        char *p = &i;
6.        printf("%x\n", *p);
7.    }
```

Note: Our toolchain is BIG ENDIAN TOOLCHAIN

a) Unspecified value

b) 12

c) 78

d) 12345678

Q2-

```
8.    #include <stdio.h>
9.    int main()
10.   {
11.       int arr[10] = {};
12.       int *p = arr;
13.       p++;
14.       printf("%p\n", p);
15.   }
```

NOTE: The base address of array (address of arr[0] is 0x1234)

a)0x1235

b)0x1233

c)0x1236

d)0x1238

Q3-
```
int a;
int* p;
a = 2;
p = &a;
a = a + 1;
Printf("%d", *p);
```

a) 2
b) 3
c) Won't run

Q4-
```
int a;
int b;
int* p;
int* q;
a = 3;
p = &a;
q = p;
b = 4;
*q = b;
Printf("%d   %d", *p,a);
```

a) 4 3
b) 3 4
c) 4 4